November 30, 2018

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE WESTERN DISTRICT OF OKLAHOMA

SEAN SMITH and CRYSTAL
SMITH,

Plaintiffs,

-vs
No. 5:17-CV-1302-D

CSAA FIRE and CASUALTY
INSURANCE COMPANY,

Defendant.

DEPOSITION OF J. STEPHEN FORD, Ph.D, P.E.

TAKEN ON BEHALF OF THE PLAINTIFFS

IN OKLAHOMA CITY, OKLAHOMA

ON NOVEMBER 30, 2018

REPORTED BY: KASEY D. EGELSTON, CSR

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24

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rot.

November 30, 2018

Page 112 floor joists. 1 2 Do you know if any of these floor joists 3 are broken underneath this living room? 4 Α Based on the -- on the elevation 5 information contained in the Rimkus report, I think there's high probability that some of them are 6 7 broken due to rot. That's basically what I said. And in order to repair those broken floor 8 9 joists, if you were going to repair this room, you would have to actually replace those floor joists; 10 11 right? 12 Typically, you would not. Typically, you Α 13 would go in and what we would call sistering them, 14 depending upon the extent of the rot. It depends 15 upon some of the details, but effectively you would 16 go in and remove enough flooring that you could get a joist that was long enough to sistering is 17 18 effective. Just placing a new competent joist next 19 to the damaged joist. There's lots of details that 20 have to be worked out and whether you extend that 21 new sister joist the full length or whether it was 22 just a partial length and how you attach it.

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There's many details associated with that. But

effectively sistering them if they're broken due to

November 30, 2018

Page 113 Well, due to anything? 1 Q 2 Α Correct. 3 If they're broken, it could be due to 0 4 anything. 5 If they were broken -- if they were overloaded, but typically floor joists would be 6 7 broken due to some type of vertical load. 8 Q Sure. 9 Or damage from, you know, again, excessive 10 water there. 11 Yeah. Like if the bricks just fell over 0 because of moisture or whatever and there was too 12 much load, they would have fallen; right? 13 14 Α Okay. 15 I'm sorry, if the vertical brick supports 16 would have collapsed and people walk across this, 17 then that could be a load that breaks them; right? 18 Α Again, yes. But you have to remember that 19 not all of the these joists are reenforced, so if 20 the joist is broken, okay, and obviously if you lose 21 vertical support, you know, due to -- due to a 22 collapsed brick column, depending on whether the 23 joist was broken at that location or depending upon 24 whether the joist was damaged due to wood rot or 25 there was load -- excessive load on the floor at

November 30, 2018

Page 114

- 1 that location, but obviously, you know, lots of
- 2 things, you know, could contribute to a problem
- 3 occurring. A problem being either excessive
- 4 deflection or actual breaking of the joist. Many
- 5 things could create that. Typically they're
- 6 associated with -- for floor joists at this level of
- 7 structure, typically the issues are associated with
- 8 either vertical load or damaged material, but loss
- 9 of a vertical support would be one of those. And
- 10 what I would call a supplemental support. Because,
- 11 again, as I indicated, some of these joists, you
- 12 know, span the full length don't have any kind of --
- 13 so that would indicate -- when you see a reinforced
- 14 joist right next to a non-reinforced joint,
- 15 reinforced being supplementally supported or
- 16 whatever, then you -- that leads you to believe that
- there's been some issue in the past.
- 18 Q And if you go in to fix this and you're
- 19 going to sister it, is the sister to code?
- 20 A Yeah, the design of the sister would be --
- 21 the sistering process would be governed by building
- 22 codes, absolutely.
- Q Do you know if in Cushing you can sister
- 24 floor joists and it be to code? Or do you have to
- 25 replace them?